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November 1, 2017

The Honorable Jocelyn G. Boyd Chief Clerk/Administrator Public Service Commission of South Carolina 101 Executive Center Drive, Suite 100 Columbia, SC 29201

Re: Demand Side Management/Energy Efficiency ("DSM/EE") Quarterly Report Docket No. 2011-181-E

Dear Ms. Boyd:

Pursuant to the Commission's Order issued September 2, 2011 in Docket No. 2011-181-E, Duke Energy Progress, LLC ("DEP") submits its quarterly report pertaining to Rider DSM/EE-6 and its EM&V schedule for Demand Side Management/Energy Efficiency ("DSM/EE") programs. The schedules accompanying this submission, for the quarter ending September 30, 2017, are as follows:

- Attachment 1 Amounts billed under Rider DSM/EE-8 during the reporting period accompanied by estimates of gross receipts taxes and South Carolina Regulatory Fees;
- Attachment 2 DSM/EE program energy and capacity savings achieved through the end of the reporting period;
- Attachment 3 DEP's anticipated DSM/EE program EM&V schedule; and
- Attachment 4 DEP's System O&M and A&G expenses and amounts allocated to South Carolina.

DEP will continue to submit this report to both the Commission and the Office of Regulatory Staff on a quarterly basis until further order of the Commission.

Please contact me if you have any questions.

Sincerely,

Keblean Dhi

Rebecca J. Dulin

Enclosures

cc: Parties of Record

# Rider DSM/EE-8 Quarterly Billings

for the Quarter Ending September 30, 2017

DSDR

EE

DSM

#### A. Amounts Net of GRT & SC Reg Fee

KWH

**Rate Class** 

Residential	586,516,835	\$ 1,044,793.96	\$ 1,100,670.77	\$ 4,495,815.30	\$ 6,641,280.03
Small General Service	81,920,163	\$ 62,668.92	\$ 147,046.70	\$ 599,655.59	\$ 809,371.21 <b>Z</b>
Medium General Svc	473,531,352	362,292.18	849,971.29	3,466,347.86	4,678,611.33
Large General Service	582,529,661	445,635.20	1,045,640.74	4,264,117.12	5,755,393.06 <u>当</u>
Lighting	20,494,482	-	-	-	- er
Non-Residential (Gross)	1,158,475,658	\$ 870,596.30	\$ 2,042,658.73	\$ 8,330,120.57	\$ 11,243,375.60 A
Opt-Outs					:01 F
General Service EE	(729,915,403)	\$ (558,387.91)	\$ -	\$ -	\$ (558,387.91)
General Service DSM/DSDR	(727,739,327)	-	(1,310,197.02)	(5,327,058.21)	(6,637,255.23)
Lighting	(357,081)		-	-	- C
Non-Residential (Opt-Out)	NA	\$ (558,387.91)	\$ (1,310,197.02)	\$ (5,327,058.21)	\$ (7,195,643.14) P
Non-Residential (Net)	NA	\$ 312,208.39	\$ 732,461.71	\$ 3,003,062.36	\$ 4,047,732.46
Overall Net Recoveries	NA	\$ 1,357,002.35	\$ 1,833,132.48	\$ 7,498,877.66	\$ 10,689,012.49
. GRT & SC Reg Fee					‡ 201
Estimated Gross Receipts Tax @	0.30 percent				\$ 32,163.53
Estimated SC Regulatory Fee @	0.1519029 percent				16,261.62
Total GRT and Regulatory Fee					\$ 48,425.15 TT
C. Estimated DSM/EE Billings (Sec	ctions A + B)				\$ ت <u>م</u> 10,737,437.64

# **Duke Energy Progress** DSM / EE Program Savings (1)

September 30, 2017

Attachment 2 ELECTRONICALLY FILED - 2017 November 1 2:01 PM - SCPSC - Docket # 2011-181-E

Savings

335,154

19,947

6,105

14,920

29,552

2,406

140,355

3,118

70,512

2,657

80

1,039

11,901 Year to Date **Cumulative Since Program Inception** Participants/Measures Participants/Measures kWh Savings kW Savings kWh Savings kW Savings EnergyWise<sup>TM</sup> (2) 335,154 335,154 335,154 CIG Demand Response (2) 19,947 19,947 19,947 **Small Business EE DR** 6,105 6,105 6,105 **Residential New Construction** 6,892,550 9,807,514 34,407,532 4,240 12,630,030 **Residential Home Energy Improvement** 20,316 5,368,230 1,430 250,974 39,487,028 **Residential Low Income - NES** 3,502 1,504,482 229 34,571 17,539,422 Residential Lighting Program (3) 1,357,378 17,202,115 2,481 886,605,099 28,744,408 47,834 **Residential Appliance Recycling** 27,252,360 Non-Res Smart\$aver (3) **Prescriptive Lighting** 507,335 48,613,075 7,066 78,709,500 357,821,280 450,420 1,299,698 340 2,447,509 8,261,922 Prescriptive HVAC **Prescriptive Motor** 522 747,060 77 601 771,055 **Prescriptive Refrigeration** 1,189 1,107,146 806,201 11,138,035 110 11,901 **Custom Measure** 1,123 5,142,262 646 4,743 64,351,219 **Technical Assistance** 56,909,240 960,589 442,343,510 86,188 **CIG Energy Efficiency Total** 8,241 81,968,752 Small Business Energy Saver (3) 28,941,567 32,899,908 6,646 72,004,990 157,755,710 38,717 **Business Energy Report - Pilot (5)** 12,650 675 25,809 8,472,181 1,380 4,146,002 700,125 103,338,450 673,285 225,394,505 49,900 **My Home Energy Report** 16,733 **Multi-Family Home Energy Report** 71,150 6,193,132 1,681 71,150 6,193,132 1,681 25,990 1,055 **Energy Efficiency Education Program (K-12)** 6,026 1,482,372 627 5,794,596 **Multi-Family Energy Efficiency Program** 187,234 8,693,235 1,200 772,306 39,562,499 4,247 **Save Energy & Water Kit Program** 348,528 16,513,433 1,322 673,674 31,941,329 2,557 27,609 3,781,059 632 54,948 1,282 **Residential Energy Assessment** 7,676,676 **Closed Programs Residential Energy Efficiency Benchmarking** 42,928 15,402,566 2,683 Residential Home Advantage (4) 7,174 8,649,183 3,078 Residential Solar Water Heating Pilot (4) 150 31,250 30 Residential CFL Pilot Program (4) 203,222 6,706,000 630 **Summary Totals** 39,890,431 267,839,171 407,344 198,593,401 1,961,214,578 744,987

<sup>(1)</sup> The values in this report, except where noted, represent estimated net savings at the meter. The reported net savings reflect ongoing annual reductions resulting from the installation of DSM/EE measures during the reporting periods. These amounts have been adjusted to account for the impact of anticipated net to gross relationships. Subsequent reports will replace estimated savings with verified values, adjusted for appropriate net to gross ratios, as determined through the Measurement and Verification (M&V) process.

The EnergyWise <sup>™</sup> participation levels shown represent program capabilities expressed in kW. The CIG Demand Response participation levels reflect contracted values.

Participation levels shown, represent number of installed measures.

Amounts reflect final net, post EM&V, values.

Business Energy Report - Pilot Program terminated 06/30/2017.

# DEP DSM/EE Programs - Anticipated EM&V Schedule

As of October 30, 2017

DEP DSM/EE Programs - Anticipated EM&V Schedule

Program Name	SC Docket	Short name	2017 4th Quarter	2018 1st Quarter	2018 2nd Quarter	2018 3rd Quarter	2018 4th Quarter	2019 1st Quarter	Notes
Commercial Demand Response	Docket 2010-41-E	CIG DR			REP (2017)				
Distribution System Demand Response	Docket 2009-190-E	DSDR							
Nonresidential Smart \$aver EE Products & Assessment (Prescriptive)	Docket 2009-190-E	EEB	REP					PROC/IMP	Report delivery 4Q-2017 to include participation period of Mar 2016-Feb 2017; combined with DEC Smart \$aver eval report (Prescriptive Measures)
Nonresidential Smart \$aver EE Products & Assessment (Custom)	Docket 2009-190-E	EEB	IMP	PROC/IMP	PROC/IMP	REP			EEB Custom projects combined with DEC Smart \$aver Custom eval report
EnergyWise	Docket 2009-190-E	EW	IMP (S2017)	REP (S2017)	IMP (W2017/2018)	REP (W2017/2018)			
EnergyWise for Business	Docket 2015-163-E	EWB		PROC/IMP	REP (2017)				2017 report (PY2016) to be combined with DEC evaluation report
Energy Efficiency Education	Docket 2014-420-E	K12		PROC/IMP	REP (2017)				2nd eval in 2018 to be combined evaluation with DEC
Residential Energy Assessment	Docket 2016-82-E	REA		PROC	IMP	REP			Program approved Feb 2016
Lighting (Retail)	Docket 2010-41-E	LP	REP (PY2016)						Report in 2016 to include participation period of 2015-middle of 2016; 2017 report to be combined with DEC
Multi-Family Energy Efficiency	Docket 2014-419-E	MF				PROC/IMP			Will be combined DEC/DEP evaluation
My Home Energy Report	Docket 2011-180-E	MyHER					REP		Report in 2018 will be combined DEC/DEP evaluation
Neighborhood Energy Saver	Docket 2009-190-E	NES		PROC	IMP	REP			2018 evaluation to be combined with DEC evaluation
Residential New Construction	Docket 2015-237-E	RNC	IMP	REP					Report in 2017 to include participation period beginning with 2016; no PY2015 evaluation
Residential Save Energy & Water Kit	Docket 2015-322-E	SEW	REP						Report in 2017 will be first evaluation of program in DEPand will be combined with DEC evaluation
Small Business Energy Saver	Docket 2015-163-E	SBES	IMP	REP					To be combined with DEC evaluation report

	LEGEND	
PROC	Process surveys/interviews (customers or other) for purposes of report that follows	
IMP	Impact data collection (onsites, billing data) and analysis for purposes of report that follows	
REP	Evaluation, Measurement & Verification Report	

NOTE: THESE DATES ARE SUBJECT TO CHANGE

168,341 \$ 2,834,796

# **South Carolina Retail - DSM/EE Cost Summary**

								SO	UTH CARO	INA JURISD	ICTIONALLY A	ALLOCATED RE	TAIL COSTS (	ONLY				
0:	3 of Test Period						Capitalized	Ar	mortization	Amortizatio	n	Income Tax	ces DSDR		Carrying	Inco	me Taxes	Rev Reqmt
Q.	) of rest reflou						O&M and	of	Capitalized	of Capitalize	d DSDR Capi	tal on DSDR	Property	DSDR	Costs Net o	f on (	Carrying	Before PPI &
			O&M	Insurance	A&G	Expense			0&M	A&G	Costs	Capital Co		Depreciation			Cost	NLR 💾
	July 2017 through September 2017		(1)	(2)		(3)	(4)		(5)	(6)	(7)	(8)	(9)	(10)	(11)		(12)	(13)
							ΣCols(1)thru(3)		((1)+(2))/3	(3)/3								$\Sigma Cols(5) thru(12)$
	SC DSM Program Expenses																	17
					١.					_								\$ 32,550
1	CIG DR	Per Books	\$ 97,649		\$	-	\$ 97,649			\$ -					\$ -	\$	-	
2	EnergyWise	Per Books	453,537			-	453,537		151,179	-							-	151,179
3	Small Business EE DR	Per Books	48,262		_		48,262		16,087	-							-	16,087
4	Total DSM	Σ Lines thru 3	\$ 599,448		\$		\$ 599,448		199,816						\$ -	\$		\$ 199,816 <b>Q</b>
5	DSM Assigned to A&G Cost	Per Books			_	29,964	29,964		-	9,98					82,304		36,005	128,297
6	Total DSM and Assigned Cost	Σ Lines 4 thru 5	\$ 599,448		\$	29,964	\$ 629,412	\$	199,816	\$ 9,98	3				\$ 82,304	4 \$	36,005	\$ 328,113 N
																		_
_	SC EE Program Expenses						207.640		0= 000									D ≤ 880 <b>S</b>
7	Res Home Energy Improvem't	Per Books	287,640			-	287,640			-							-	33,880
8	Residential Low Income	Per Books	53,120			-	53,120			-							-	17,707 <b>O</b>
9	CIG Energy Efficiency	Per Books	662,674			-	662,674			-							-	220,891
10	Residential Lighting	Per Books	477,978			-	477,978			-							-	159,326
11	Res Appliance Recycling	Per Books	210			-	210		70	-							-	70 🔿
12	EE Behavior Program*	Per Books	245,187			-	245,187			-							-	245,187
13	Small Business Direct Install	Per Books	305,598			-	305,598			-								101,866
14	Residential New Construction	Per Books	402,818			-	402,818			-					-		-	134,273 ACC 6,004
15	Energy Efficiency in Education Program (K12)	Per Books	18,012			-	18,012			-								6,004 #
16	Multi-Family	Per Books	73,550			-	73,550	\$	24,517	-								<sup>24,517</sup> N
17	Residential CFL Property Manager	Per Books	430			-	430	\$	143	-								143
18	Business Energy Report	Per Books	2,146			-	2,146	\$	715	-								715 🕂
19	Save Energy and Water Kit	Per Books	10,806				10,806	\$	3,602									3,602 🕏
20	Residential Energy Assessments	Per Books	92,408				92,408	\$	30,803									30,803
21	Total EE	Σ Lines 7 thru 20	\$ 2,632,577		\$	-	\$ 2,632,577	\$	1,040,984	\$ -					\$ -	\$	-	\$ 1,040,984 TT
22	EE Assigned to A&G Cost	Per Books				122,282	122,282		_	40,76	1				260,520	)	113,968	415,249
23	Total DSM and Assigned Cost	Σ Lines 21 thru 22	\$ 2,632,577		\$	122,282	\$ 2,754,859	\$	1,040,984	\$ 40,76	1				\$ 260,520	) \$	113,968	
	-		- 1		-		-		-	-								ge
	SC DSDR Program Expenses																	6
24	DSDR Program	Per Books	\$ 265,562	\$ 29,408	\$	-	\$ 294,970	\$	98,323	\$ -	\$ 236,6	70 \$ 103,1	51 \$ 104,731	1 \$ 447,219	9 \$ 41,988	3 \$	18,368	\$ 1,050,450
25	DSDR Assigned to A&G Cost	Per Books				-	-			-								, o
26	Total DSM and Assigned Cost	Σ Lines 24 thru 25	\$ 265,562	\$ 29,408	\$	-	\$ 294,970	\$	98,323	\$ -	\$ 236,6	70 \$ 103,1	51 \$ 104,731	1 \$ 447,219	9 \$ 41,988	3 \$	18,368	\$ 1,050,450
			1					-										<del></del>

152,246 \$ 3,679,241 \$ 1,339,123 \$

50,749 \$

236,670 \$

103,151 \$ 104,731 \$ 447,219 \$ 384,812 \$

Lines 6 + 23 + 26

\$ 3,497,587 \$ 29,408 \$

27 Test Period Totals

<sup>\*</sup>EE Benchmarking program is recoverable over a 1 year period All other EE programs are over a 3 year period

**EE Deferral Calculation** 

DSM Deferral Calculation		С		г
DSM/EE Filing Support				
Cost summary for 07/17 - 09/17				
	Jul-17	Aug-17	Sep-17	Q3 2017
		7.0.5		<b>49 20 11</b>
DSM Current Period Actual Program Cost Deferral:				
Program Costs CIG Demand Response (Ph. II)	195,996.49	356,467.56	153,094.67	705,558.
Residential Energy Wise	1,057,270.86	1,118,305.98	1,101,427.03	3,277,003.
Small Business EE DR	117,022.13	107,736.56	123,953.10	348,711.
Total DSM O&M	1,370,289.48	1,582,510.10	1,378,474.80	4,331,274.
Program Costs not yet Commission Approved				
Small Business EE DR				
G&A	91,499.07	69,697.47	65,570.45	226,766.
True-up Entry Amount, if any (See **True-up Notes)	91,499.07	09,097.47	03,370.43	220,700.
Subtotal Deferred G&A and O&M	1,461,788.55	1,652,207.57	1,444,045.25	4,558,041.
SC:				
Program Costs				
CIG Demand Response (Ph. II)	27,125.91	49,335.11	21,188.30	97,649
Residential Energy Wise	146,326.29	154,773.55	152,437.50	453,537
Small Business EE DR Total DSM O&M	16,195.86 189,648.06	14,910.74 219,019.40	17,155.11 190,780.91	48,261 599,448
	100,010.00	210,010.10	100,700.01	000,110
G&A True-up Entry Amount, if any (See **True-up Notes)	12,173.89	9,129.46	8,660.31	29,963
Subtotal Deferred O&M and G&A	201,821.95	228,148.86	199,441.22	629,412
Subtotal Deferred of Program Costs not yet Commission Approved				
Subtotal Deferred of Frogram Costs not yet Commission Approved				
Recovery	(004 000 47)	(244,000,50)	(040 700 70)	(007.005
SC	(334,209.17)	(314,886.59)	(318,709.73)	(967,805)
Amortizaton				
O&M	(209,801.17)	(219,591.62)	(210,178.79)	(639,571)
G&A	(15,467.06)	(14,452.25)	(14,295.87)	(44,215.
	(225,268.23)	(234,043.87)	(224,474.66)	(683,786)
Carrying Cost Balance				
Beg Balance	7,277,507.39	7,254,061.10	7,248,166.09	21,779,734.
plus expense	201,821.95	228,148.86	199,441.22	629,412
less amortization	(225,268.23)	(234,043.87)	(224,474.66)	(683,786)
End Balance	7,254,061.10	7,248,166.09	7,223,132.66	21,725,359
Prior Month Ending Balance for return calc (2007- Nov 09 Average Bal.)	7,277,507.39	7,254,061.10	7,248,166.09	21,779,734
ADIT	2,697,036.96	2,688,347.79	2,686,163.11	8,071,547
Basis for return calc	4,580,470.43	4,565,713.31	4,562,002.98	13,708,186
Return Calc				
Debt Component - Net of Tax	7,068.58	7,045.81	7,040.08	21,154
Equity Component - Net of Tax	20,432.56	20,366.73	20,350.18	61,149.
Equity Return Tax Gross-Up	12,030.69	11,991.93	11,982.19	36,004
Total Return	39,531.83	39,404.47	39,372.45	118,308